

**FIG. 1**

FIRST EMBODIMENT

2: ELECTRONIC PRINTER

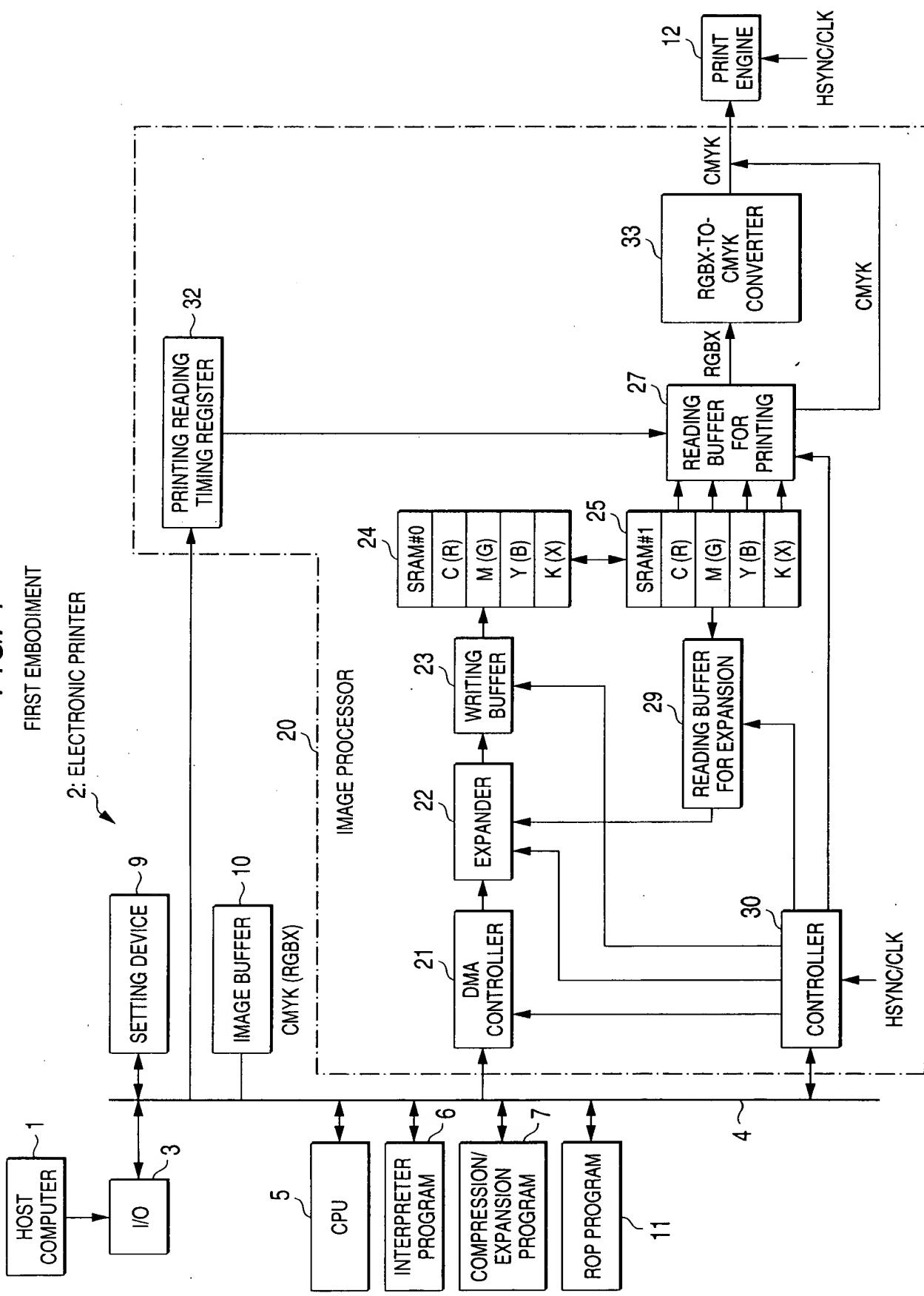


FIG. 2

## CASE OF CMYK AND SINGLE ENGINE

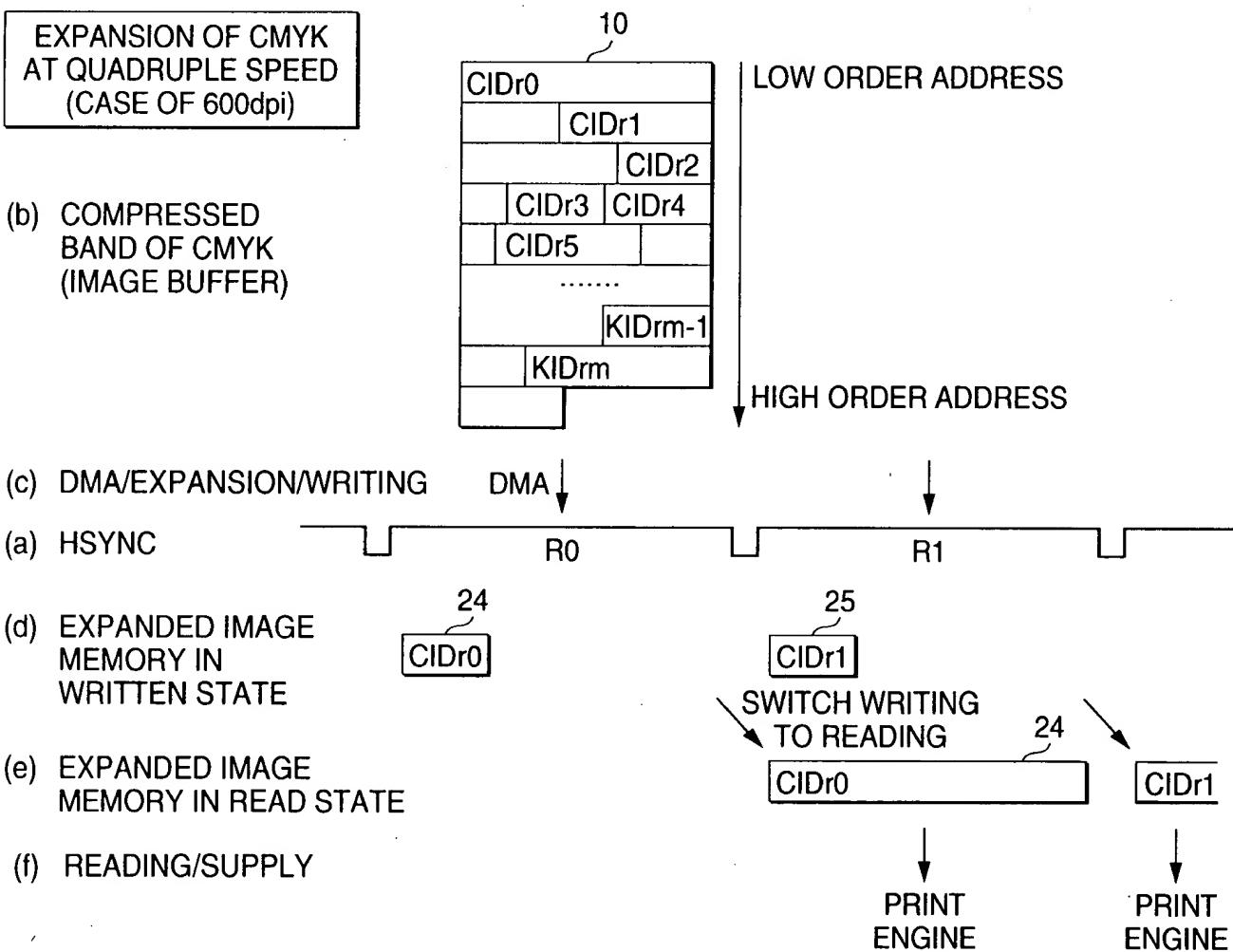


FIG. 3

## CASE OF RGBX AND SINGLE ENGINE

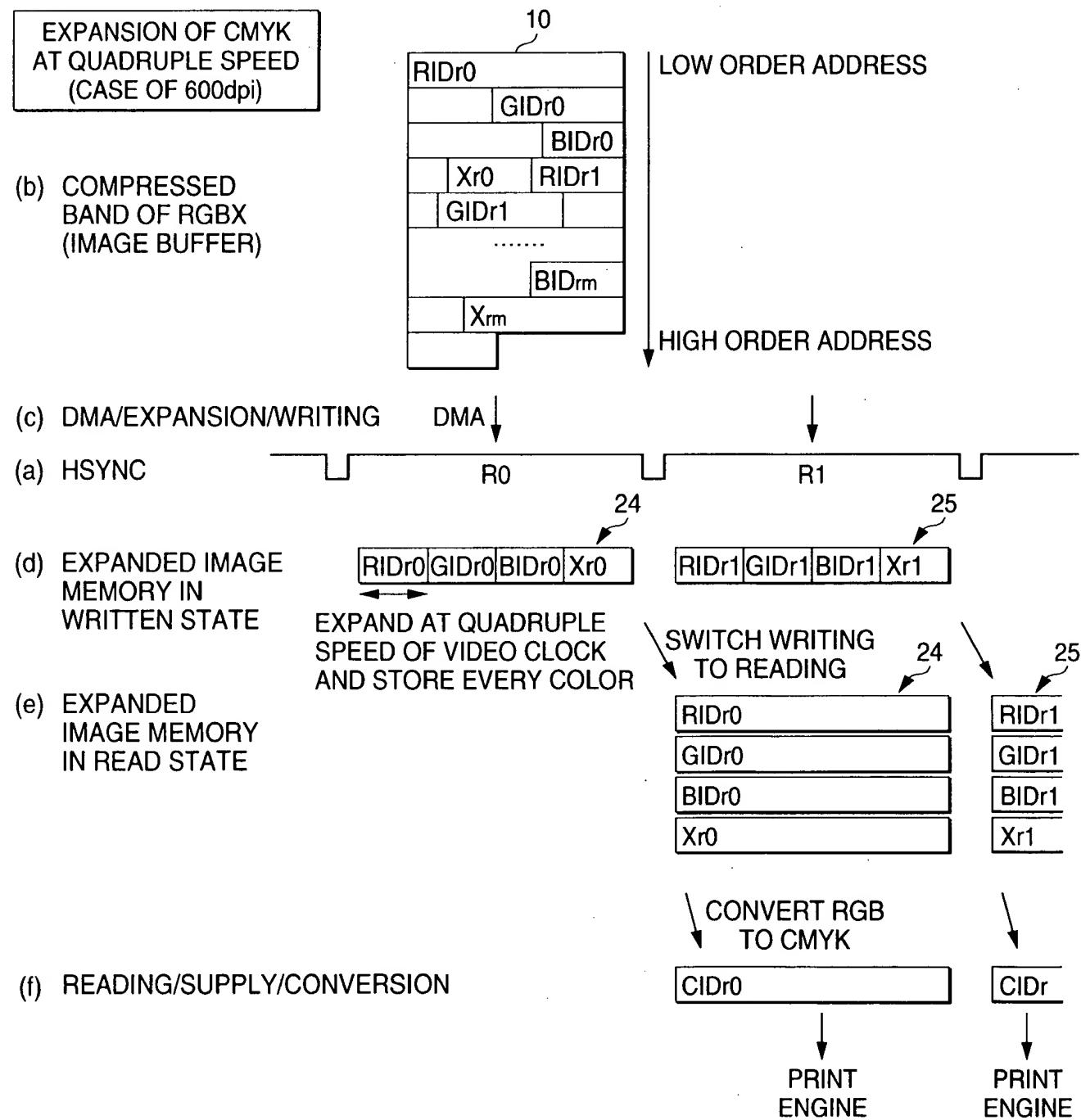
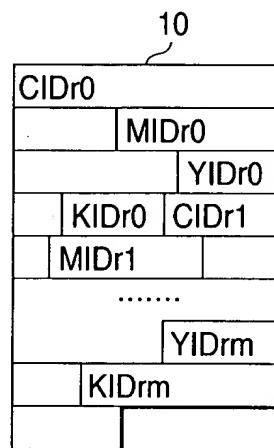


FIG. 4

## CASE OF CMYK AND TANDEM ENGINE

EXPANSION OF CMYK  
AT QUADRUPLE SPEED  
(CASE OF 600dpi)

(b) COMPRESSED  
BAND OF CMYK  
(IMAGE BUFFER)



LOW ORDER ADDRESS

HIGH ORDER ADDRESS

(c) DMA/EXPANSION/WRITING

DMA

(a) HSYNC

R0

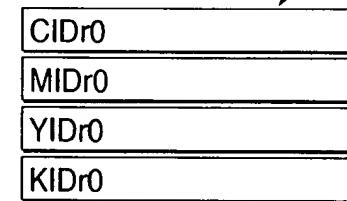
R1

(d) EXPANDED IMAGE  
MEMORY IN  
WRITTEN STATE

24

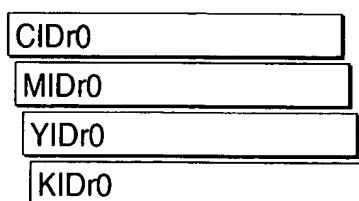
25

(e) EXPANDED IMAGE  
MEMORY IN  
READ STATE

SWITCH WRITING  
TO READING

(f1) READING/SUPPLY/CONVERSION

TO PRINT ENGINE



(f2) READING/SUPPLY/CONVERSION

TO PRINT ENGINE

600dpi 2006 Tungsten

FIG. 5

## IMAGE PROCESSING FROM 600 dpi TO 600 dpi

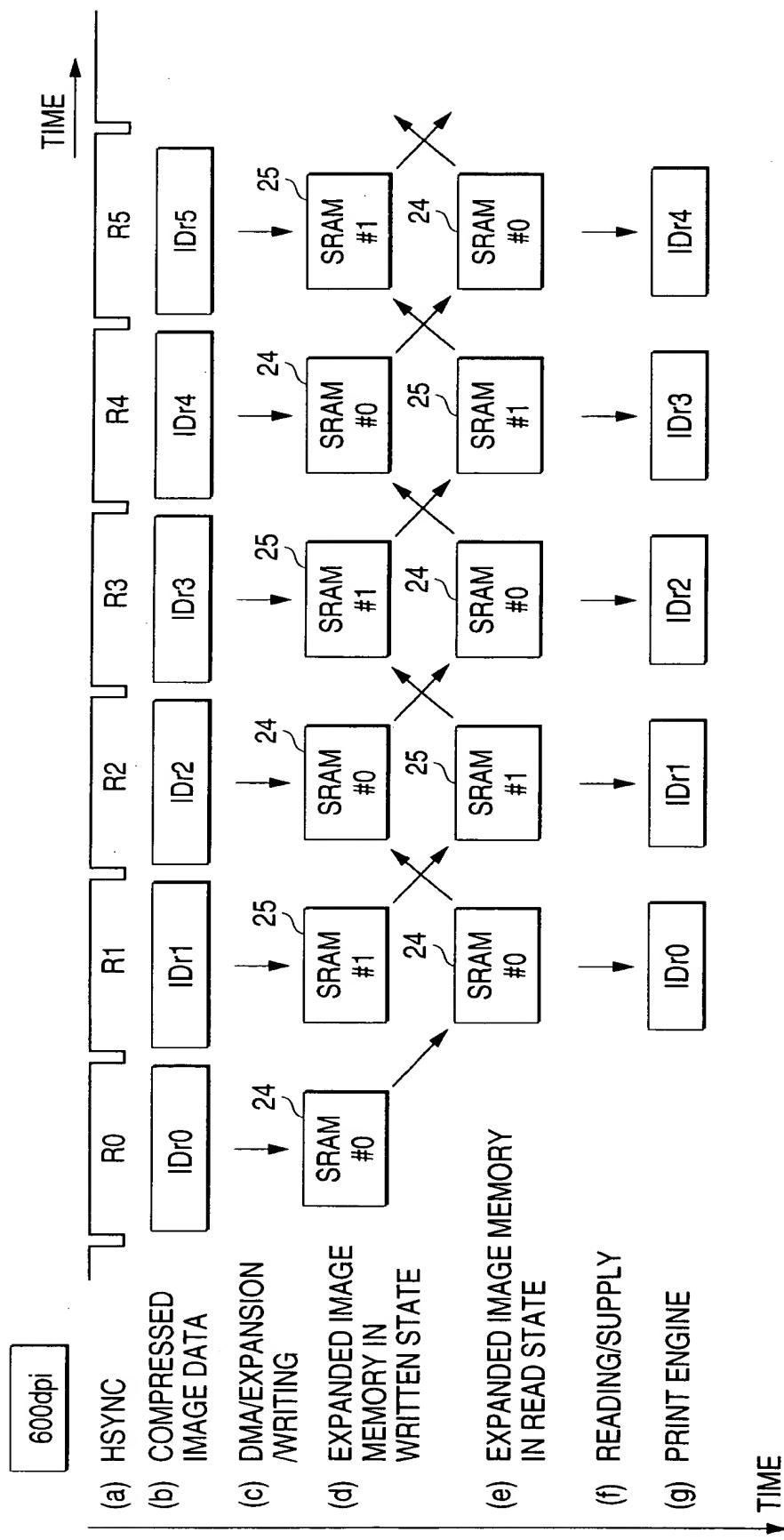


FIG. 6

## IMAGE PROCESSING FROM 300 dpi TO 600 dpi

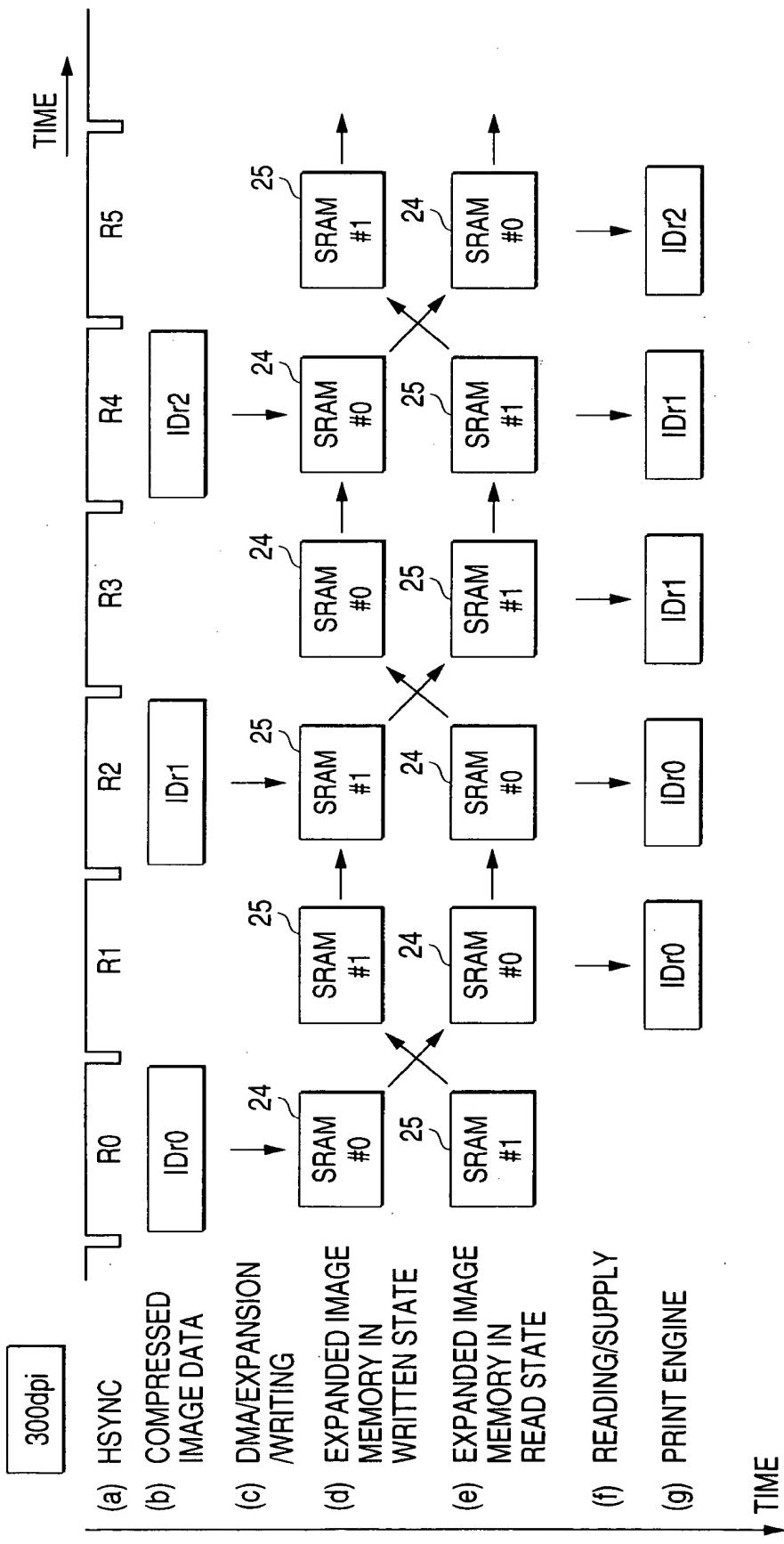


FIG. 7

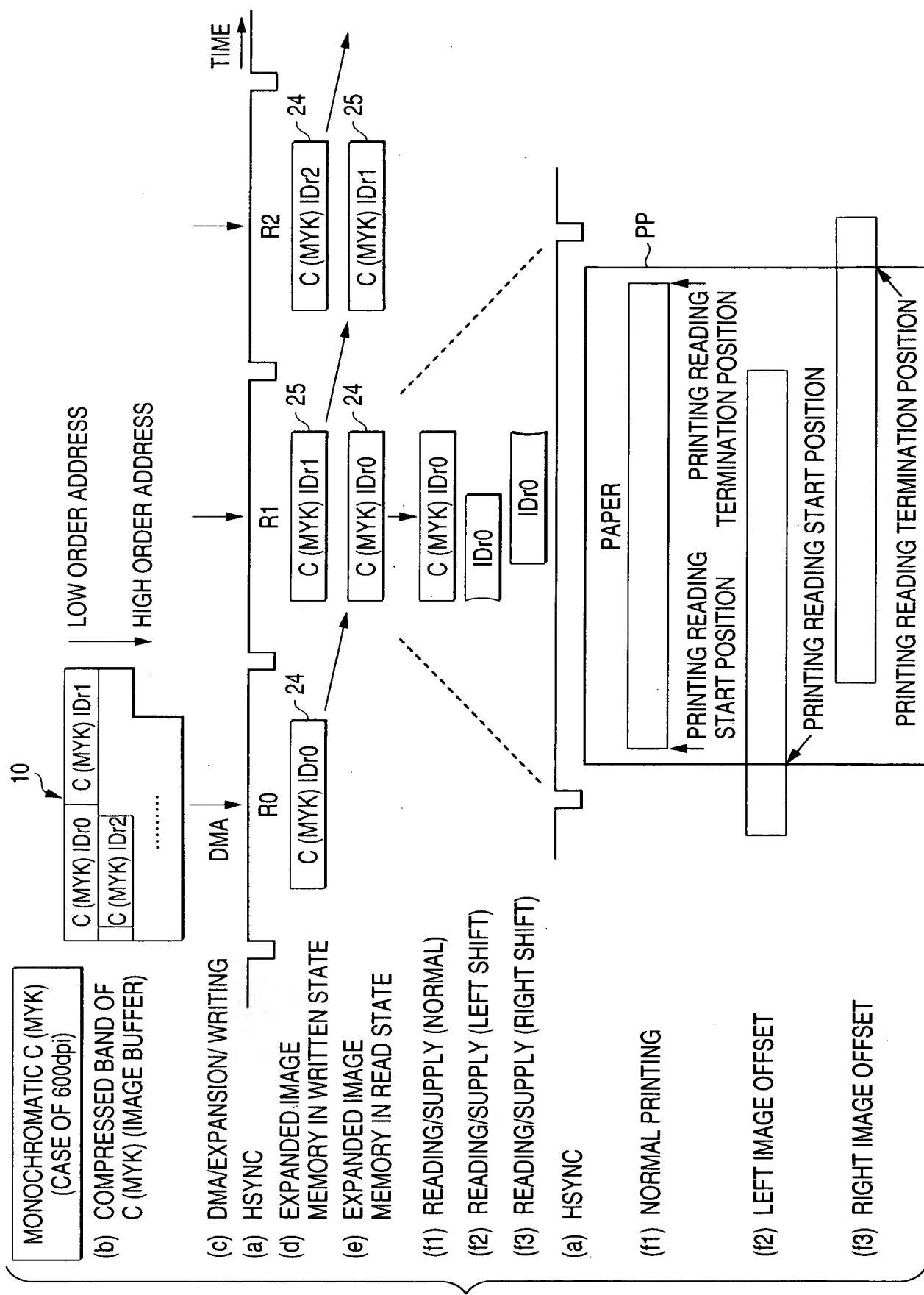
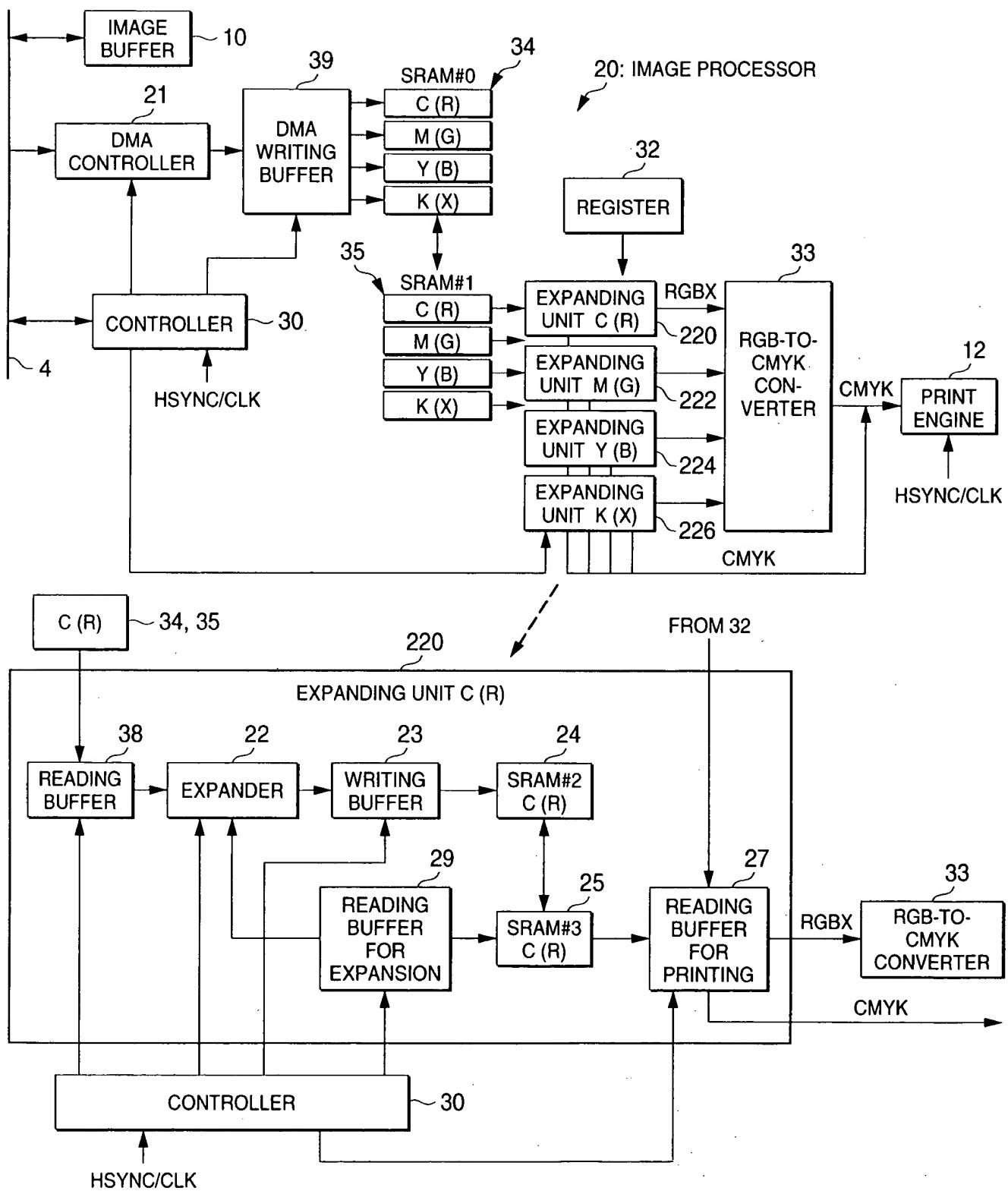


FIG. 8

## SECOND EMBODIMENT



**FIG. 9**

IMAGE PROCESSING FROM 600 dpi TO 600 dpi

600dpi

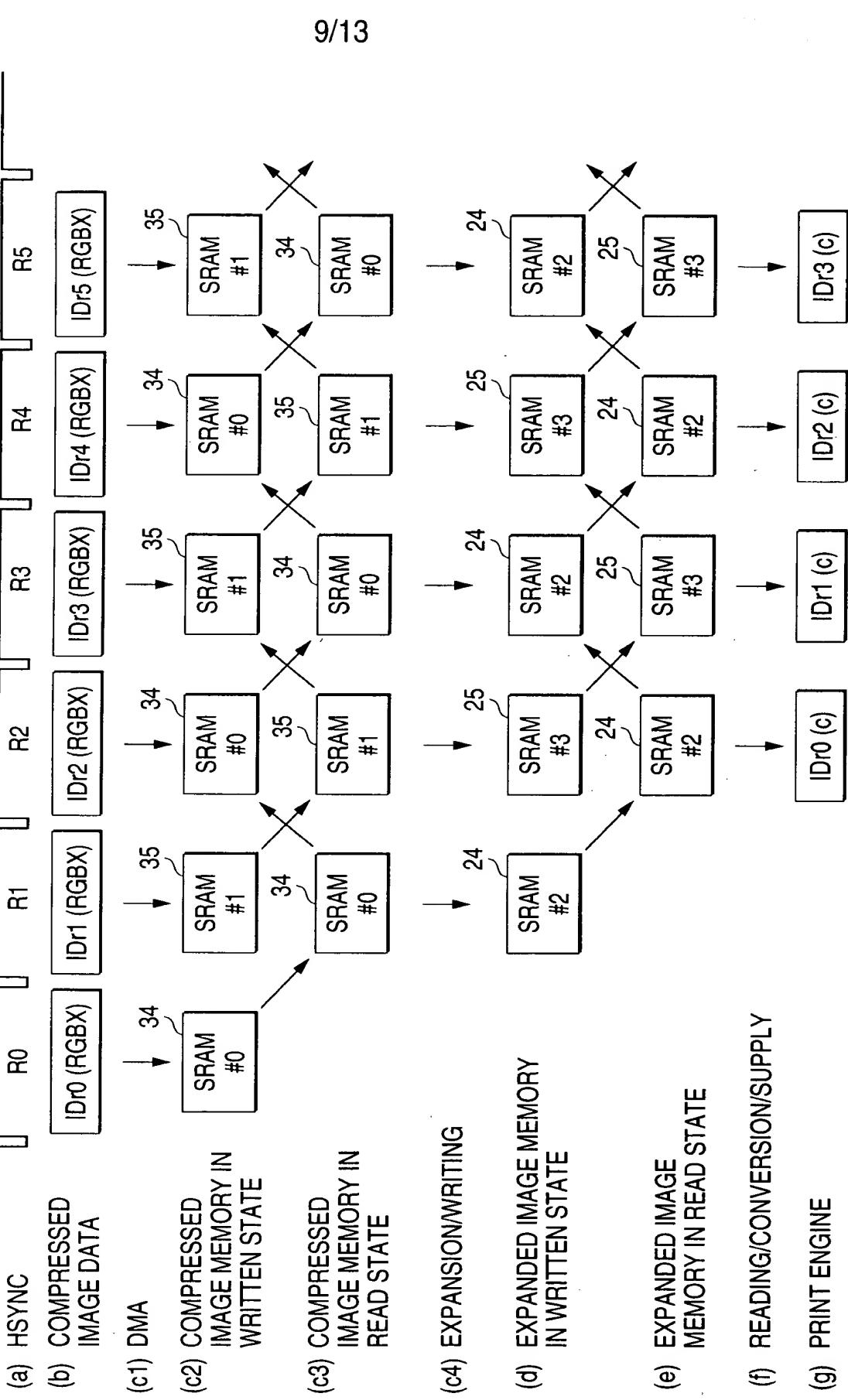


FIG. 10

## IMAGE PROCESSING FROM 300 dpi TO 600 dpi

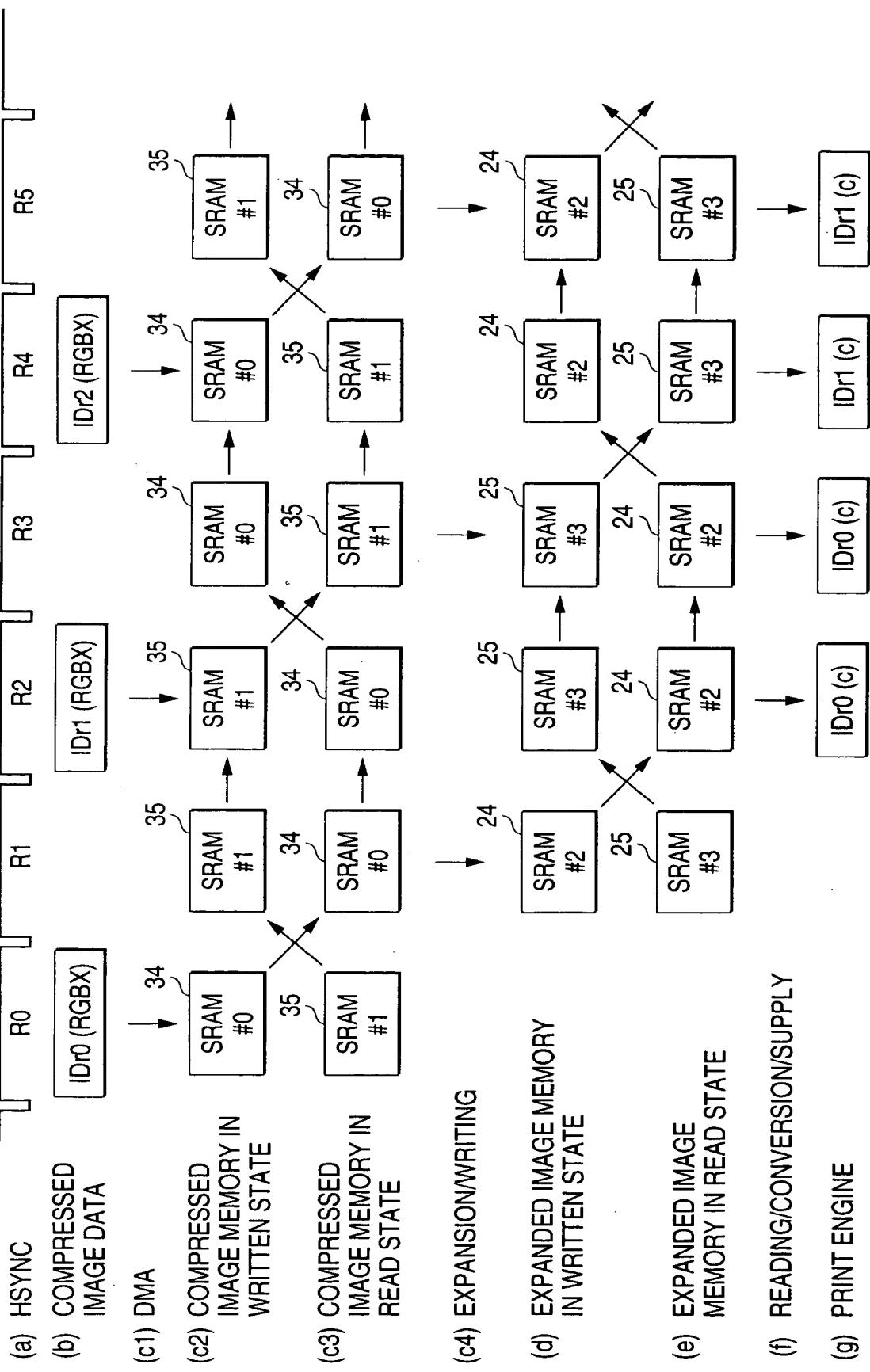


FIG. 11

## CASE OF CMYK AND SINGLE ENGINE

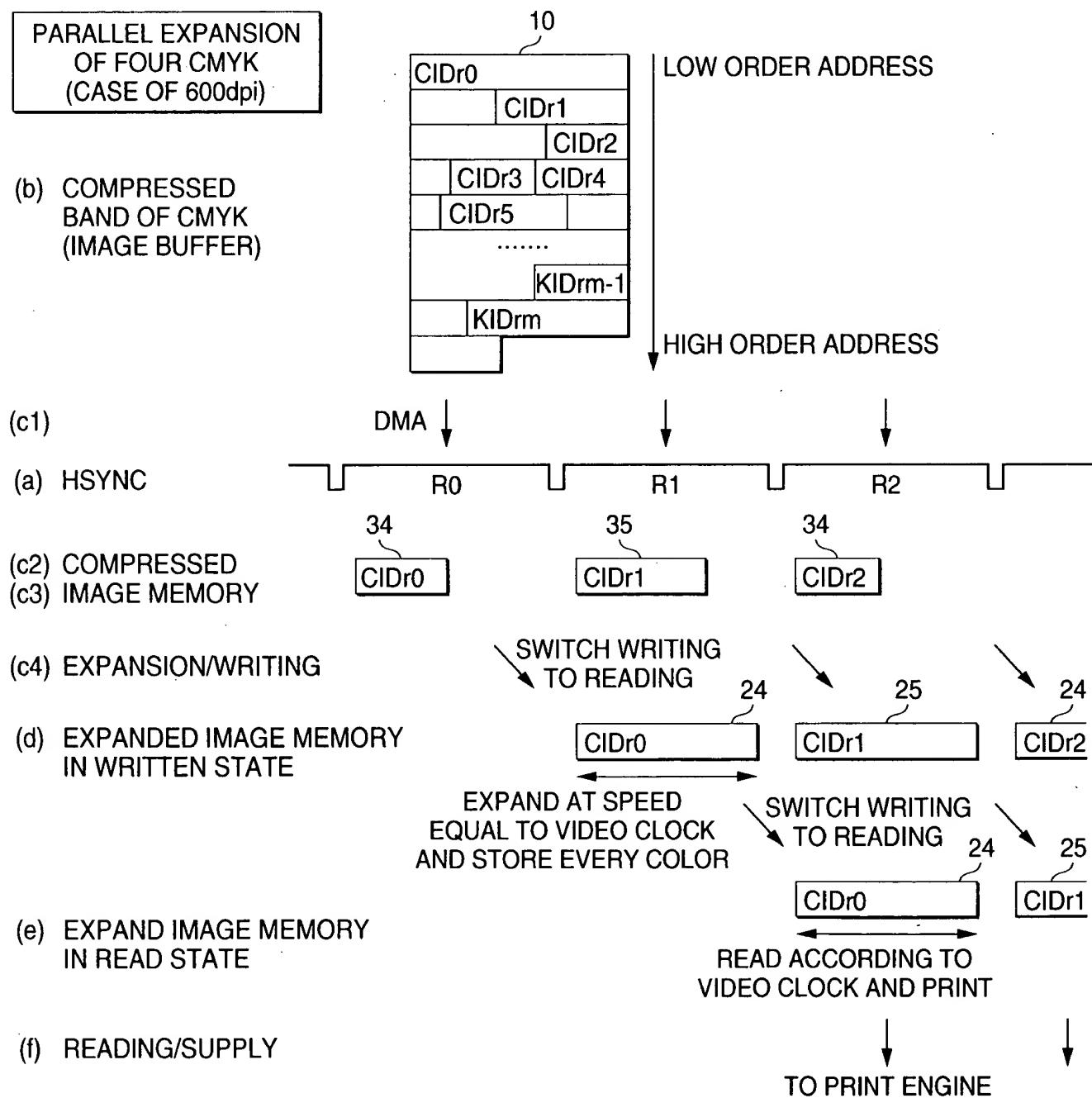


FIG. 12

## CASE OF RGBX AND SINGLE ENGINE

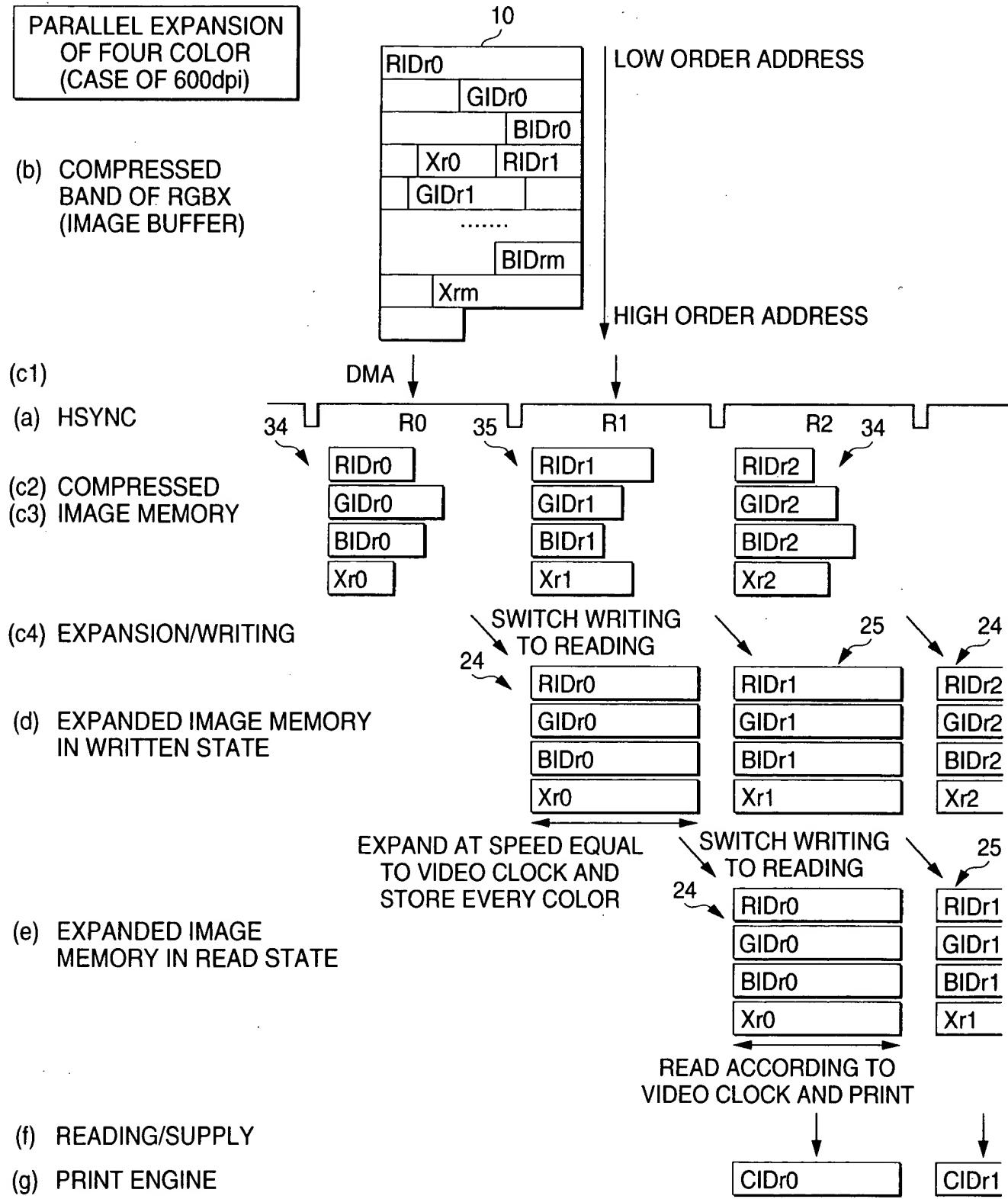


FIG. 13

## CASE OF CMYK AND TANDEM ENGINE

